

WHAT IS CLAIMED IS:

1. An electrical contact to electrically couple an implantable lead to a tissue stimulation device, comprising:

5 a conductive disk having an inner aperture, wherein the conductive disk is operably coupled to the tissue stimulation device; and

10 a plurality of conductive projections extending away from the inner aperture of the disk, wherein the conductive projections flex to receive the implantable lead and electrically couple to a plurality of terminals within the implantable lead.

15 2. The electrical contact in claim 1 wherein a tension exerted by flexing the conductive projections maintains the implantable lead relative to the first set of electrical terminals.

3. The electrical contact of Claim 1, wherein the conductive projections flex elastically.

20 4. The electrical contact of Claim 1, further comprising a plurality of projections at the outer perimeter of the conductive disk which operable couple the conductive disk to a housing wherein the housing is operable coupled to the tissue stimulation device.

25 5. The electrical contact of Claim 1, wherein conductive projections are comprised of a shape memory alloy.

6. The electrical contact of Claim 5, wherein the stimulation lead provides a stimulation pattern from an applied electric field and comprises:

a body having a first surface;

5 a plurality of electrodes positioned relative to the first surface of the body; and

a plurality of conductors, wherein a conductor electrically couples one terminal of the plurality of terminals with at least one electrode.

10 7. The electrical contact of Claim 1, wherein the tissue stimulation device comprises an implantable receiver to deliver electrical stimulation signals to the implantable lead in response to a control signal.

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8. A neuromodulation therapy system comprising:
at least one implantable stimulation lead to deliver of
electrical energy to proximately positioned tissue;
an implantable pulse generator coupled to the at least one
stimulation lead, wherein the implantable pulse generator is
operable to deliver electrical energy to the at least one
stimulation lead in response to at least one control signal, and
wherein an electrical contact operably couples the at least one
implantable stimulation lead to the implantable receiver, the
electrical contact comprising:

a conductive disk having an inner aperture, wherein the
conductive disk is operably coupled to the implantable receiver;
and

a plurality of conductive projections extending away
from the inner aperture of the disk, wherein the conductive
projections flex to receive the at least one implantable
stimulation lead and electrically couple to a plurality of
terminals within the at least one implantable stimulation lead.

9. The system of claim 8, wherein tension exerted by
flexing the conductive projections maintains the at least one
implantable stimulation lead relative to the first set of
electrical terminals.

10. The neuromodulation therapy system of Claim 8, wherein
the conductive projections of the electrical contact flex
elastically.

11. The neuromodulation therapy system of Claim 8, wherein
the electrical contact, further comprises a plurality of
projections at the outer perimeter of the conductive disk which
operable couple the conductive disk to a housing wherein the
housing is operable coupled to the implantable receiver.

12. The neuromodulation therapy system of Claim 8, wherein the projections are comprised of a shape memory alloy.

5 13. The neuromodulation therapy system of Claim 11, wherein the stimulation lead provides a stimulation pattern from an applied electric field and comprises:

 a body having a first surface;

 a plurality of electrodes positioned relative to the first
10 surface of the body; and

 a plurality of conductors, wherein a conductor electrically couples one terminal of the plurality of terminals with at least one electrode.

15 14. A method to operably couple an implantable lead to a tissue stimulation device that comprises:

 operably coupling a conductive disk having an inner aperture to the tissue stimulation device; and

 receiving the implantable lead with a plurality of
20 conductive projections extending away from the inner aperture of the disk, wherein the conductive projections flex and electrically couple to a plurality of terminals within the implantable lead.

25 15. The method of claim 14, wherein tension exerted by flexing the conductive projections maintains the implantable lead relative to the first set of electrical terminals.

30 16. The method of Claim 14, wherein the conductive projections flex elastically.

17. The method of Claim 14, wherein operably coupling the conductive disk to the tissue stimulation device further comprises operable coupling a plurality of projections at the outer perimeter of the conductive disk to a housing wherein the housing is operable coupled to the tissue stimulation device.

18. The method of Claim 14, wherein the projections are comprised of a shape memory alloy.

19. The method of Claim 14, wherein the stimulation lead provides a stimulation pattern from an applied electric field and comprises:

a body having a first surface;

a plurality of electrodes positioned relative to the first surface of the body; and

a plurality of conductors, wherein a conductor electrically couples one terminal of the plurality of terminals with at least one electrode.

20. The method of Claim 14, wherein the tissue stimulation device comprises an implantable receiver to deliver electrical stimulation signals to the implantable lead in response to a control signal.

21. An electrical contact to electrically couple an epidural stimulation lead to a tissue stimulation device, comprising:

5 a conductive disk having an inner aperture, wherein the conductive disk is operably coupled to the tissue stimulation device;

10 a plurality of conductive projections extending inwards from the inner aperture of the disk, wherein the conductive projections flex elastically to receive the epidural stimulation lead and electrically couple to a plurality of terminals within the epidural stimulation lead, and wherein tension exerted by flexing the conductive projections maintains the epidural stimulation lead relative to the first set of electrical terminals; and

15 a plurality of projections at the outer perimeter of the conductive disk which operable couple the conductive disk to a housing wherein the housing is operably coupled to the tissue stimulation device.

20 22. The electrical contact of Claim 21, wherein the epidural stimulation lead provides a stimulation pattern from an applied electric field and comprises:

a body having a first surface;

25 a plurality of electrodes positioned relative to the first surface of the body; and

a plurality of conductors, wherein a conductor electrically couples one terminal of the plurality of terminals with at least one electrode.

30 23. The electrical contact of Claim 22, wherein the tissue stimulation device comprises an implantable receiver to deliver electrical stimulation signals to the implantable lead in response to a control signal.